

GRAPE CRUSH REPORT OVERVIEW

Information contained in this Report was supplied by processors to fulfill the reporting requirements of Section 55601.5 of the Food and Agricultural Code.

The Final Grape Crush Report includes all grape tonnage crushed during the 2017 season. It also includes purchased tonnage and pricing information for grapes with final prices prior to January 10, 2018. The Final Grape Crush Report, published on March 9, contains any late reports or corrections to the preliminary report.

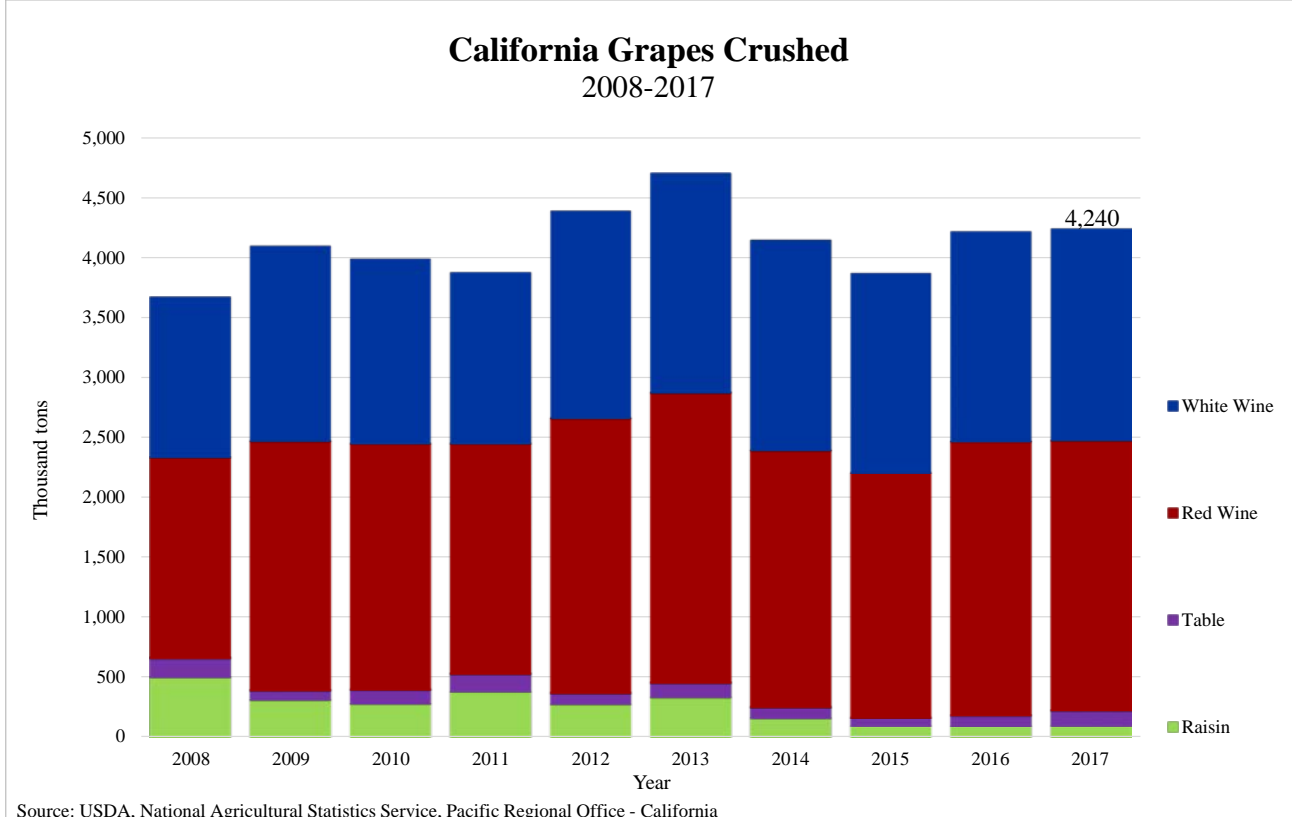
Details of the crushed tonnage, degrees Brix, and weighted average prices were reported by grape type and variety, as well as by grape pricing districts. The 17 districts refer to the area in which the grapes were grown as defined in the Administrative Code. A district map is located on the inside of the front cover.

SUMMARY OF GRAPE TONNAGES AND PRICES

The 2017 crush totaled 4,239,836 tons, up 0.5 percent from the 2016 crush of 4,217,154 tons. Red wine varieties accounted for the largest share of all grapes crushed, at 2,248,260 tons, down 1.4 percent from 2016. The 2017 white wine variety crush totaled 1,765,424 tons, up 0.8 percent from 2016. Tons crushed of raisin type varieties totaled 94,268, up 4.6 percent from 2016, and tons crushed of table type varieties totaled 131,884, up 38.2 percent from 2016. (See chart below.)

The Grape Crush Report includes the total number of tons crushed for concentrate production. In determining grape tonnage crushed for concentrate production, each processor was required to report the estimated equivalent tons of grapes crushed for grape concentrate. For the 2017 season, this total was 404,051 tons, 9.5 percent of the 2017 grape crush total. This report provides only the aggregate figure for grapes crushed for concentrate production and does not include information by district, type, or variety.

The 2017 average price of all varieties was \$777.90, up 1.9 percent from 2016. Average prices for the 2017 crop by type were as follows: red wine grapes, \$965.54, up 5.1 percent from 2016; white wine grapes, \$587.73, down 1.8 percent from 2016; raisin grapes, \$252.86, up 18.4 percent; and table grapes, \$178.37, up 16.5 percent.

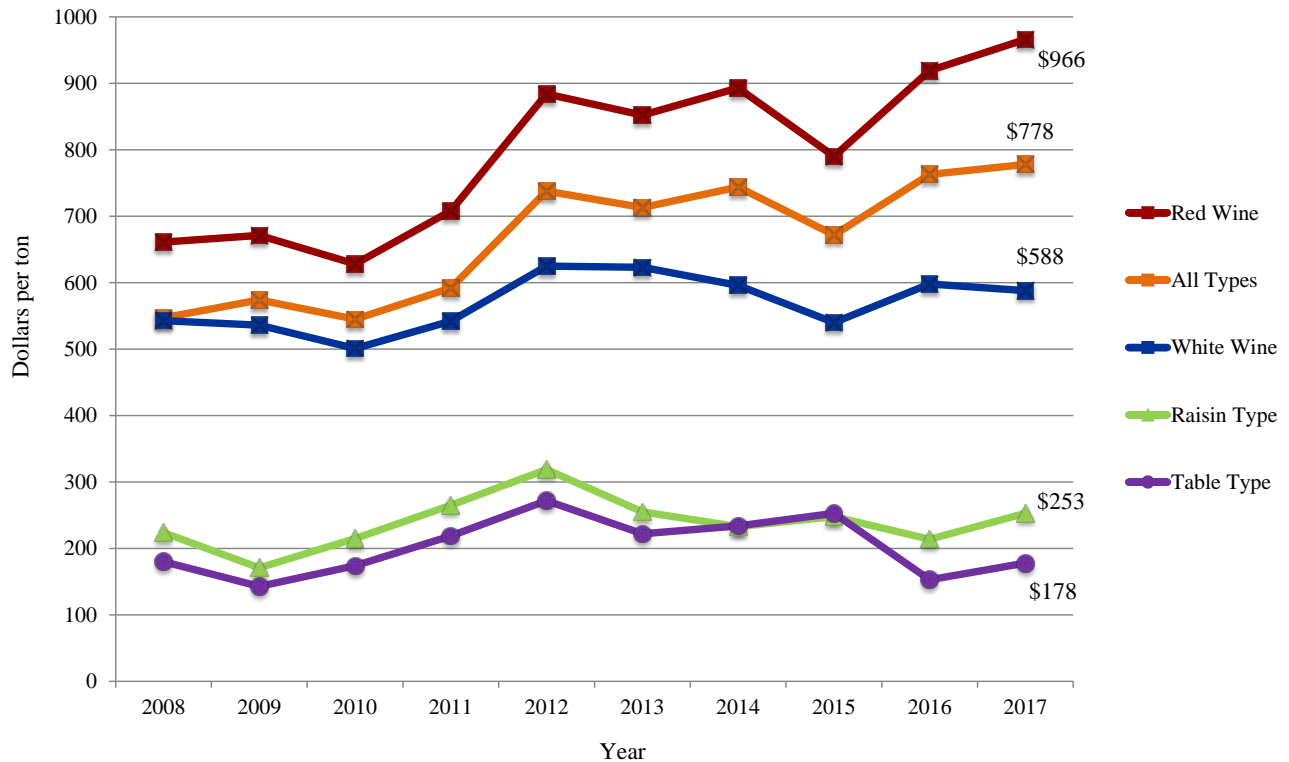


CALIFORNIA GRAPE CRUSH TONNAGE AND PRICE, 1989-2017

Crop year	Red wine type		White wine type		Total wine type		Raisin type		Table type		All types	
	Thousand tons	\$/ton	Thousand tons	\$/ton	Thousand tons	\$/ton	Thousand tons	\$/ton	Thousand tons	\$/ton	Thousand tons	\$/ton
1989	872	410	1,272	297	2,144	342	370	132	211	128	2,725	297
1990	804	355	1,331	277	2,135	306	268	126	170	127	2,573	276
1991	840	383	1,289	319	2,129	344	284	150	157	141	2,570	310
1992	888	438	1,209	364	2,097	395	785	182	217	170	3,099	325
1993	979	430	1,327	316	2,306	365	452	152	137	147	2,895	323
1994	936	462	1,242	317	2,177	379	239	118	123	136	2,540	344
1995	1,052	515	1,175	351	2,277	429	432	164	170	162	2,829	372
1996	1,079	611	1,094	469	2,172	540	618	191	117	188	2,908	452
1997	1,461	656	1,433	546	2,893	603	786	185	212	169	3,891	497
1998	1,333	643	1,194	521	2,527	586	506	164	135	150	3,169	502
1999	1,422	649	1,195	518	2,617	590	419	200	149	187	3,185	525
2000	1,816	628	1,503	500	3,319	571	513	125	120	118	3,951	504
2001	1,706	680	1,300	491	3,006	601	262	86	101	87	3,368	555
2002	1,817	614	1,288	432	3,105	538	622	76	61	80	3,787	462
2003	1,634	609	1,230	429	2,864	534	422	95	84	91	3,370	471
2004	1,639	627	1,136	487	2,775	571	727	200	113	199	3,615	482
2005	2,235	634	1,521	507	3,756	583	467	164	106	121	4,330	533
2006	1,874	637	1,263	503	3,136	583	267	154	86	137	3,489	548
2007	1,875	627	1,372	482	3,248	565	364	155	63	138	3,674	522
2008	1,676	661	1,338	543	3,015	609	494	224	165	180	3,674	547
2009	2,078	671	1,625	536	3,703	612	307	171	85	143	4,095	574
2010	2,051	628	1,538	501	3,589	574	274	215	124	174	3,986	545
2011	1,920	708	1,427	542	3,347	637	373	265	155	219	3,874	592
2012	2,292	884	1,726	625	4,018	773	270	319	99	272	4,387	738
2013	2,417	852	1,829	623	4,246	754	328	255	127	222	4,700	713
2014	2,141	893	1,753	596	3,894	759	156	233	95	234	4,145	744
2015	2,041	790	1,664	540	3,705	679	92	248	71	253	3,868	672
2016	2,280	919	1,751	598	4,032	780	90	214	95	153	4,217	763
2017	2,248	966	1,765	588	4,014	800	94	253	132	178	4,240	778

Source: USDA, National Agricultural Statistics Service, Pacific Regional Office – California

California Grape Crush, Dollars per Ton 2008-2017



Source: USDA, National Agricultural Statistics Service, Pacific Regional Office - California

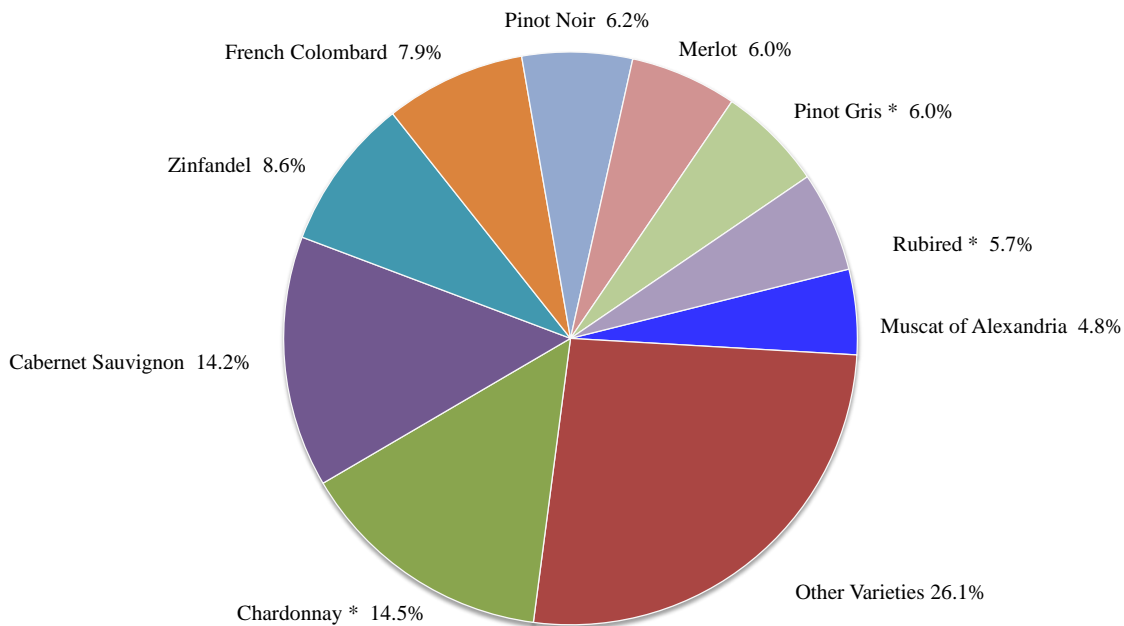
LEADING GRAPE VARIETIES AND DISTRICTS

In 2017, Chardonnay continued to account for the largest percentage of the total crush volume with 14.5 percent. Cabernet Sauvignon accounted for the second leading percentage of crush with 14.2 percent. Thompson Seedless, the leading raisin grape variety crushed for 2017, was only 1.8 percent of the total crush.

District 13, (Madera, Fresno, Alpine, Mono, Inyo Counties; and Kings and Tulare Counties north of Nevada Avenue (Avenue 192)), had the largest share of the State’s crush, at 1,403,145 tons. The average price per ton in District 13 was \$304.47.

Grapes produced in District 4 (Napa County) received the highest average price of \$5,225.04 per ton, up 11.4 percent from 2016. District 3 (Sonoma and Marin counties) received the second highest return of \$2,806.07, up 8.3 percent from 2016. The 2017 Chardonnay price of \$923.67 was up 4.2 percent from 2016, and the Cabernet Sauvignon price of \$1,552.83 was up 5.6 percent from 2016. The 2017 average price for Zinfandel was \$591.05, down 2.2 percent from 2016, while the French Colombard average price was up 2.5 percent from 2016 at \$267.39 per ton.

Leading Grape Varieties Crushed in California
Percent of Total 2017 Crush ^{1/}



Source: USDA, National Agricultural Statistics Service, Pacific Regional Office - California

*Synonyms for variety names are shown on Page 5 of the *California Grape Crush Report, Final 2017*.

^{1/} Percentages may not add to 100%, due to rounding.

EXPLANATION OF TABLES

TABLE 1 is a summary of the 2017 crop State totals by grape type and varieties that are shown in detail by grape pricing districts in Tables 2 through 6. State totals and averages for 2016 are shown for comparison.

TABLE 2 includes over-the-scale fresh tonnage of all grapes crushed by California processors from the 2017 crop. Over-the-scale fresh weight tonnage includes materials other than grapes (MOG) and defects. This table is broken down by the 17 grape pricing districts and by variety. State totals for 2016 are shown for comparison. Crushed tonnage includes all grapes crushed whether: grown and crushed by processors; purchased and crushed by processors; crushed by cooperatives, juice manufacturers, etc.; or crushed for others, including growers.

TABLE 3 shows the weighted average degrees Brix for all grapes crushed (TABLE 2) by California processors from the 2017 crop. The weighted average degrees Brix is reported by grape pricing districts and variety. State averages for 2016 are shown for comparison.

TABLE 4 includes net weight fresh tonnage of all grapes purchased for wine, concentrate, juice, vinegar, and beverage brandy by California processors from the 2017 crop. Net weight fresh tonnage does not include material other than grapes (MOG) and defects or other weight adjustments deducted from gross weight. The purchased tonnage is reported by variety and grape pricing districts. State totals for 2016 are shown for comparison. TABLE 4 does not include tonnage purchased as distilling material other than beverage brandy; this is shown in TABLE 7. Prices for all tonnage shown in this table are final and not subject to change. Grapes pooled by cooperatives, those grown by processors and used for their own production and grapes crushed to growers' accounts are not included.

TABLE 5 shows the weighted average degrees Brix for all grapes purchased for wine, concentrate, juice, vinegar, and beverage brandy (TABLE 4) by California processors from the 2017 crop. The weighted average degrees Brix is reported by grape pricing districts and variety. State averages for 2016 are shown for comparison. TABLE 5 does not include degrees Brix of tonnage purchased as distilling material other than beverage brandy; this is shown in TABLE 7. Grapes pooled by cooperatives, those grown by processors and used for their own production and grapes crushed to growers' accounts are not included.

TABLE 6 gives the weighted average price per ton, delivered basis, of all tonnage purchased for wine, concentrate, juice, vinegar, and beverage brandy (TABLE 4) by California processors from the 2017 crop. The weighted average prices are reported by variety, and grape pricing districts. State averages for 2016 are shown for comparison. TABLE 6 does not include prices of tonnage purchased as distilling material other than beverage brandy; this is shown in TABLE 7. Prices shown in this table are final and not subject to change. Grapes pooled by cooperatives, those grown by processors and used for their own production and grapes crushed to growers' accounts are not included.

Weighted average prices reflect final prices through January 10, 2018 and include any Brix adjustments, bonuses or allowances. Prices are equivalent to delivered basis in the area grown including normal within-area hauling allowances. Purchases made on a roadside basis include the usual hauling allowance for local delivery in the area grown. Out-of-area purchases made on a delivered basis do not include extra hauling allowances for delivery outside the area.

The next example indicates the method used for calculating weighted averages.

The following two purchases were made.

Variety	District	Tons	Degrees Brix	Base Price	Price Paid Per Ton	Acceptable Brix Limits	Brix Adjustment Factors	Brix Adjustment Limits
<i>Petite Sirah</i>	<i>1</i>	155.5	20.6	<i>\$450.00</i>	\$364.50	<i>19 - 25</i>	+ or - 10%	<i>Base 22, Min 20, Max 24</i>
<i>Petite Sirah</i>	<i>1</i>	20.5	19.0	<i>\$450.00</i>	\$418.50	<i>19 - 25</i>	+ or - 10%	<i>Base 22, Min 20, Max 24</i>

Note: The variety, district, base price, and Brix Adjustment Factors (including Brix limits) are the same. The tons purchased, degrees Brix, and price paid per ton are the only differences in this example.

Step 1: Multiply the tons by the Brix for each lot purchased and then add the products to get the total. Also, add the tons purchased.

Variety	District	Tons	Degrees Brix	Total (Tons X Brix)
<i>Petite Sirah</i>	<i>1</i>	155.5	20.6	155.5 X 20.6 = 3,203.3
<i>Petite Sirah</i>	<i>1</i>	20.5	19.0	20.5 X 19.0 = 389.5
TOTALS		176.0		3,592.8

Step 2: Divide the total (3,592.8) by the total tons purchased (176.0) to get the **Weighted Average Degrees Brix**.

$$\frac{3,592.8}{176.0} = 20.4$$

Step 3: Multiply the purchased tons by the Price Paid Per Ton for each lot purchased and then add the products to get the total.

Variety	District	Tons	Price Paid Per Ton	Total (Tons X Brix)
<i>Petite Sirah</i>	1	155.5	\$364.50	155.5 X 364.50 = 56,679.8
<i>Petite Sirah</i>	1	20.5	\$418.50	20.5 X 418.50 = 8,579.3
TOTALS		176.0		65,259.1

Step 4: Divide the total (65,259.1) by the total tons purchased (176.0) to get the **Weighted Average Price Per Ton**:

$$\frac{65,259.1}{176.0} = \$370.79$$

TABLE 7 shows all grape tonnage purchased as distilling material other than beverage brandy by California processors from the 2017 crop. The tonnage, weighted average degrees Brix and price per ton are shown by grape type and variety. State totals and averages for 2016 are given for comparison.

TABLE 8 shows base prices paid to growers by Brix adjustment factors, purchased tonnage, type, variety and reporting district where grown. Weighted average base prices and total purchased tonnage are included.

The Brix adjustment factors determine adjustments to base prices to compensate for sugar variations. In this report, adjustments are expressed in dollars per ton, or percent of base price per degree variance from the established Brix base. Occasional lots are traded on price per degree Brix as delivered.

TABLE 9 includes tonnage of all grapes crushed to growers' accounts by California processors from the 2017 crop. Growers retained ownership of these grapes at the time of crushing. This tonnage is reported by grape pricing district and variety. Comparisons with 2016 are shown. (*Table 9 only appears in the Final Grape Crush Report.*)

TABLE 10 gives the weighted average price per ton, delivered basis, of all tonnage purchased from non-related sources for wine, concentrate, juice, vinegar, and beverage brandy (TABLE 4) by California processors from the 2017 crop. The weighted average prices are reported by variety, and grape pricing districts. State averages for 2016 are shown for comparison. TABLE 10 does not include prices of tonnage purchased as distilling material other than beverage brandy, this is shown in TABLE 7. Prices shown in this table are final and not subject to change. Grapes pooled by cooperatives, those grown by processors and used for their own production and grapes crushed to growers' accounts are not included.

Non-Related Purchased Tons: Excludes tonnage of grapes purchased from a grower if:

- The grower or an affiliate of the grower, or both the grower and the affiliate of the grower, owned, directly or indirectly, at least 5 percent of the indicia of ownership or voting authority of the winery (processor);
- The winery (processor) or an affiliate of the winery, or both the winery and the affiliate of the winery, owned, directly or indirectly, at least 5 percent of the indicia of ownership or voting authority of the grower;
- The winery (processor) or an affiliate of the winery, or both the winery and the affiliate of the winery, provided long-term financing to the grower in exchange for rights or options to purchase a significant portion of the grower's harvest.

Grape Variety Synonyms

Alicante Bouschet *-Alicante
 Beauty Seedless *-Black Beauty
 Black Prince *-Rose of Peru
 Blaufraenkisch *-Lemberger
 Burger *-Monbadon
 Chardonnay *-Pinot Chardonnay, Chardonnay
 Musque
 Cinsaut *-Black Malvoisie, Black Malvasia
 Crimson Seedless *-Red Crimson
 Emerald Seedless *-Black Seedless
 Flame Seedless *-Red Flame
 Gamay (Napa) *-Gamay, Valdiguie
 Gray Riesling *-Trousseau Gris
 Grenache *-Grenache Noir
 Italia *-Muscat Italia

Malaga *-White Malaga
 Meunier *-Pinot Meunier
 Moscato Giallo *-Muscat Yellow
 Mourvedre *-Mataro
 Muscat Blanc *-Muscat Canelli,
 Muscat Blanc A Petits Grains
 Muscat Hamburg *-Black Muscat
 Negrette *-Pinot St. George
 Nero D'Avola *-Calabrese
 Other Red Wine -Lenoir, Gros Verdot, Criolla,
 Ruby Royal, Tinta Amarella,
 Tinta Negra Mole
 Other White Wine -Aligote, Vidal
 Palomino *-Golden Chasselas
 Pinot Gris *-Pinot Grigio

Princess *-Melissa
 Red Globe *-Rose Ito
 Refosco *-Mondeuse
 Ribolla Gialla *-Rebolla
 Rubired *-Tintoria
 Ruby Seedless *-King Ruby
 Sangiovese *-Sangiovetto, Brunello
 Sauvignon Vert *-Muscadelle
 St. Emilion *-Ugni Blanc, Trebbiano
 Syrah *-French Syrah, Shiraz, Syrah Noir
 Tempranillo *-Tinta Roriz, Valdepenas
 Touriga Nacional *-Touriga
 Trousseau *-Bastardo
 Vermentino *-Vennentino
 White Riesling *-Johannisberg Riesling, Riesling

* indicates the published name includes more than one variety name